

MCU DIVISION



QUARTER 1, 1988

EVALUATION MODULES/BOARDS

			Ī				Devi	Device Supported	phorte	.			
Evaluation Modules/ Boards	MC6801U4	WC68701	MC68701U4	MC6803U4 MC6803	MC6804P2 MC6804J1, JZ	WC68HC04J2/P3	WC6806F2/64/P6 WC6806P2/P4/P6	WC68705P2/P5 MC6805U2/U3	WC68706U3/U5	MCSSHCOSEG MCSSHCOSEG MCSSHCOSEG MCSSHCOSEG MCSSHCOSEG	MCSSHC71E0/E1/E8 MCSSHC71E0 MCSSHC71E0	WC88HC38	WC98000
M68701EVM	-		٠.	11								i	
M68705EVM							//	11111	1				
M68HC04EVM					,	1111							
M68HC05EVM										11111			
M68HC11EVM											111		
М68НС99ЕVМ												`	
M68HC11EVB											` ` `		
MEX68KECB													`

SYSTEM MODULES AND DEVELOPMENT STATIONS

HDS-200 Hardware Software Development Station HDS-300 Hardware-Software Development Station

^{*} A stand atone enrulator system that provides state of the art, high speed enrulation support for the MC6809, MC680½E, and the complete MiXH1/M681CT1 Family.

MOTOROLA 8 BIT MPU/PERIPHERAL GUIDE

Device	Pins	Расквре	Part Description
MCGBDD	6	P. S	8 Bit MPU Addresses 64K Memory, 1 or 2 MHz Versions
MC6802	40	P, S	MC6800 + Int. Clock Oscillator; 178 Bytes RAM
MC6809	40	P, S	High Performance MPU, 10 Powerful Addressing Modes
MC6809E	40	P, S	MC6809 With External Clock Input For External Sync.
MC6910	24	P, S	128 × B Static RAM, 6 Chip Select
MC6821	₽	P. S	Peripheral Interface Adaptor
MC6840	28	P, S	Programmable Timer Module Contains 3 16-Bit Timers
MC6844	40	P, S	Direct Memory Access Controller, 4 DMA Channels
MC6845	40	ج. دی	CRT Ctrl, Refresh Memory Addressing; 2nd Source HD6945R
MC6847	940	P. 5	Video Display Generator, Multi Display
MC6850	24	P, S	Asynchronous Communication Interface Adapter
MC6852	24	P, S	Synchronous Serial Interface Adaptor
MC6954	28	S.	Advanced Data Link Controller
MC6859	28		Data Security; Nat Bureau of Srd Algorithm
MC68488	9	P, S	Interface Adaptor, Operates to IEEE 488 Standard
MC68HC24	€	P. FN	MC68HC11 Part Replacement (Expanded Mode)
MC68HC34	8	P. S. TN	256 Bytes Dual Port RAM, 6 Semaphore Registers
MC146818	24	P, S	Real Time Clock, 50 Bytes RAM, Programmable Square Wave
MC146818A	24	P, S, FN	Enhanced Version of the MC146918
MC146823	\$	P, S, IN	P. S. FN Three B Bit Ports, Handshake Control Logic

MICROCONTROLLER—SELECTOR GUIDE

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1101	HOMOS	i	1	
AN ES	63	81142	11098	нсирэ
0 0	×	0	12K	¥
219 992	512	526	9 2	128
515 515	215	×	0	•
	16 Bit	16 Bit	16 Bit	16 Bit
Yes	Yes	Yes	οN	Yes
Yes	ž.	Yes	Pho Pho	Yes
3	-		-	2
3	-	5	-	~
Yes	ž	Yes	£	Ş.
Yes	Yes	Yes	말	Yes
Yes	150	Yes	No.	Yes
1	K3 63	H3 C5	52 FN	
_	- fec	48 P	Oraly	48 P
Port [EPRUM	EPHOW!		Buffer Chip	
75 E	Black Protest Block Protect		99 65	
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0.21		0.21		
0.21			130	

M6811C05

					HCMDS				
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BOM		×	=	ž	18917	¥	ž	EZAN)	ŧ
RAM	1.76	176	176	9/1	1.76	1.76	176	<u> </u>	138
MOBOS	0	0	0	0	2006	c	952	•	0
Time	16 Bit	16 Bu	16 Bit	16 Bit	16 Bit	16 811	16 Bit	16 Bir	B Bit 16 Bit
Ido	o ₄	SEX	Yes	- XI	, Si	No	No	Yes	γo
SCI	N _E	X4X	Yes	Yes	Yes	Yes	Yes	₩ 140	No
A/D	Ne	No	cN.	£	₩	1.65	Yes	Mo	/es
0:1	*	z	×	24	24	ä	35	74	32
Document	ADI SBIR2	ADA SSH2	ADI991R2	ADI991R2	Appentix E	A011296	ADH 296	ADI1254	
Packaye	40.5	9 SF (F)	40 P	40 P	2 S	52 FN Only	52 FN Only	85 F.N.	52 FN Only
Spacial Features	5 2	0 x0°	Veilege & High Speed	Love Voltage & High Speed	Self Cherk Stop & Watt	FWM D/A 4 16 Bit Timers	PWM 0/A 4 16 Bit Timers	Chip	24 Lines (3 Ports) VFD un Chip
EPROM OF			MCBBIC BISC4	MCBBHC ABCB			MC68HC RD586		
Bus Speed MHz	0.24	0.21	0.2.1	0.2.1					

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M6804/M68HC04

	<u></u>	HMOS		HCMOS	501
		12	2	Er	٦3
TO B	3.	199	1974	(4.72	<u> </u>
RAM	32	a	33	124	P.Z.
	9 Bit	8 B4	9 Brt	9 84	å. ø
92	21	12	2	12	R
EPROM Version			70467		
Bus Speed, 1412	83 238	877.18	827 08	6.	S
Pachage	28	2	28.	30.6	282

M6805

				HWOS	0.8		i	
	HZ H	E#	52	S	n2	5	2.4	æ
Lice ROM (bytes)	BYO.	3776	0897	3720	8462	37.75	110	1967 17
ВАМ	æ	112	3	100	Z	112	3.	Z
55	No	140	Yes	33	No	ç	Of.	ų.
A/D	Ta.	135	Sã),	Yes	130	er.	÷14	-
I/O Bichiectional	24	24	21	=	7.	24	۶	۶:
I/O Unidinectional				7		g,	4 -	न =
Pins	ş	96	Æ	100	S	Ş.	ø:	9 :
EFROM Version	705.07	/05BJ	76553	10553	7051.13	(i.k.)	1,190	Ť
Tener		8.8%	B Bin	60	8 B-r	e. 1	er er	œ.
Bus Speed Wills	0110	0110	01.10	0110	0110	01.16	0110	
Pachaye	en P. S	25 d 100	28 P. S	28 8 . S	S d S	٠ ١ ١ ١ ١	<i>U.</i> ≘	ر. د. وج
	2	7						

M6801

		HMOS	50	
	MCGIOI	MC680	MC6801U4	MCSPRBU
RAM	BZ1	138	(či	e.
Standing RAM	F 4	Z		₹.
ROM	2148	G	97.78	ε .
EEPROM	0	0	6	c .
Tener	15 Bis	16 Bir	16 94	ů.
Input Capture Functions	-	-	-	- :
Dutput Compare Functions	-	_		2
Serial Communications	Yes	5a.k	•	ŷd.
Serial Peripheral Interface	P	No	770	ź:
A/D Converter		100	-	Ź:
Real Time Interrupt	No	140	26c	÷
Warchilou System	No	No	ů,	Ę.
Farallet I/O	£;	13	ጲ	î
EPROM	MC 68703	41/A	AN GRZULUI	e 1
Bus Sneed, Miltz	05.20	02:50	52 50	22136
Parkate	80 P. S	40 P. S	4.1.	4.5

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MCU NEW PRODUCTS

Part	Description	HOM*	HAM	Pins	Prod.	Pkg. Style	Documentation	Competition
M6804 Family: MC68HC704P4	HCMOS MC6804 OTPROM	4K E	156	28	40.88	d	Contact factory	
MC68HC04J3	20 Pin Version of MC68HC04P3	2K	124	20	3088	ط	AU11268	COPS 421C
M68HC05 Family:								
MC68HC805C4	EEPROM Version of MC68HC05C4	4K EE	176	44/40	Now	FN, P	AD1991R2	187051
MC68HC05C9	HCMOS MC68HC05C4 with 16K ROM	16K	352	\$	4088	FN, P	NDA	
MC68HC05A6	MC68HC05C4 Plus 2K EEPROM	4K	176	44/40	2088	FN, P	NDA	HD65901
MC68HC05B4	MC68HC05C4 W/8 Channel A/D, 2 Channel PWM	4K	176	25	1989	FR	AD11296	Siemens 80515
MC68HC05B6	MC68HC05B4 W/More ROM, 256 EEPROM	¥9	176	25	4088	Z	AD11296	Siemens 80515
MC68HC805B6	EEPROM Version of MC681/C05B6	6K EE	176	25	2088	Ĭ.	AD11296	Siemens 80515
MC68HC05L6	MC68HC05C4 with 96 Segment LCD Drive	9 8	9/1	89	Now	DIE	AD11254	HD63L05F1, NEC 7503
MC68HC05M4	MC68HC05C4 with High Voltage VF Drive	¥	128	25	3088	Ä	NDA	
MC68HC705C8	HCMOS MC6805 OTPROM	8X F	30	44/40	4088	FN. P	AD1991R2	HD63705V0P
MC68HC705C4	HCMOS MC6805 OTPROM	4K E	176	44/40	1989	FN, P	ADI991R2	HD63705V0P
M68HC11 Family:								
MC68HC11E9	MC68HC11AB with More ROM, More RAM Bytes,	12K/	512	25	3088	Z.	NP438	18396
MC68HC11E1	Four Timer Input Captures MC68HC11E9 Without ROM	512 EE 512 EE	512	25	3088	¥.	NP438	
A47.001.10.7	10000014	1	i		:	1		
MCDSMCGIFAZ	MCDOILCIAI FILS ZA EEFRUM	ZK EE	ę,	27/48	Now		BHZ89	HD69501
MC68HC/1103	HCMOS MC68HC11 OTPROM	4× F	192	40/44	1986	FN, P	Contact factory	HD63701V0P
Other:								
MC68HC16	16 Bit MCU	ı	t	ì	;	i	NDA	National 320 16/32
MC6811C99 (Rev)	Hard Disc Controller	12K	256	25	2088	Ä.	NP435	Adaptec AIC 100 (3
MC6898	Bus Driver Chip for MC68HC94	ļ		QP C	20.88	N	NPA35	Chip Solution)
				2	200		200	61.000.00

* E = EPROM or OTPROM EE = EEPROM